

wt

ob/ob

vert

femur

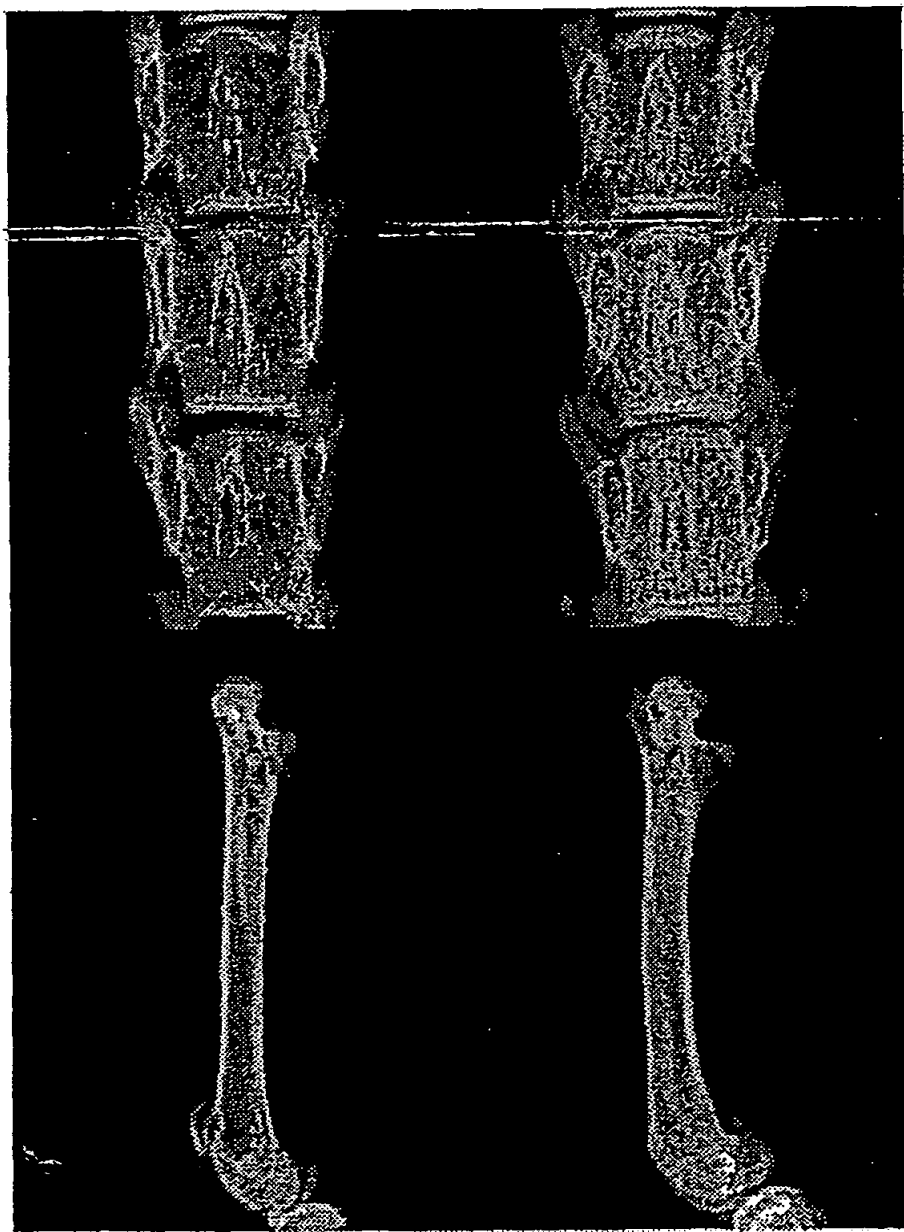


Figure 1A

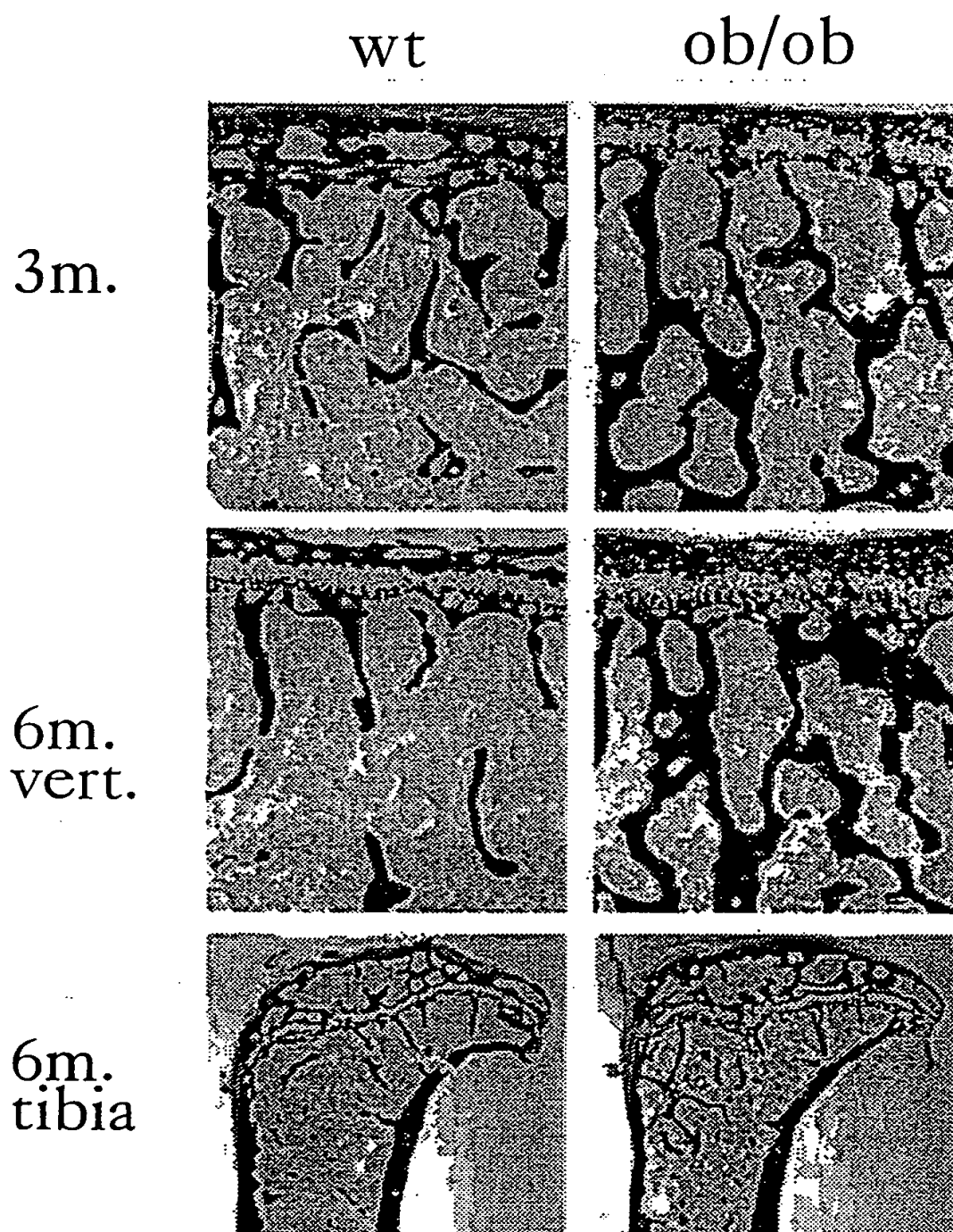


Figure 1B

Bone Volume  
(BV/TV, %)

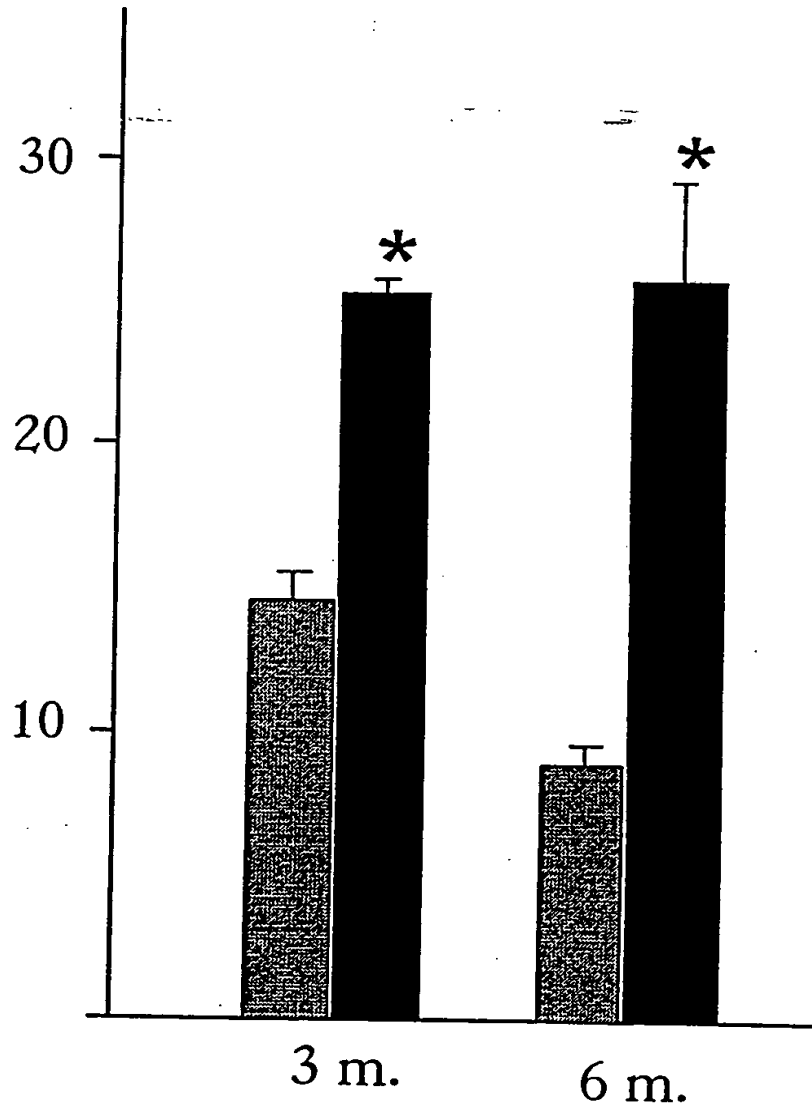


Figure 1C

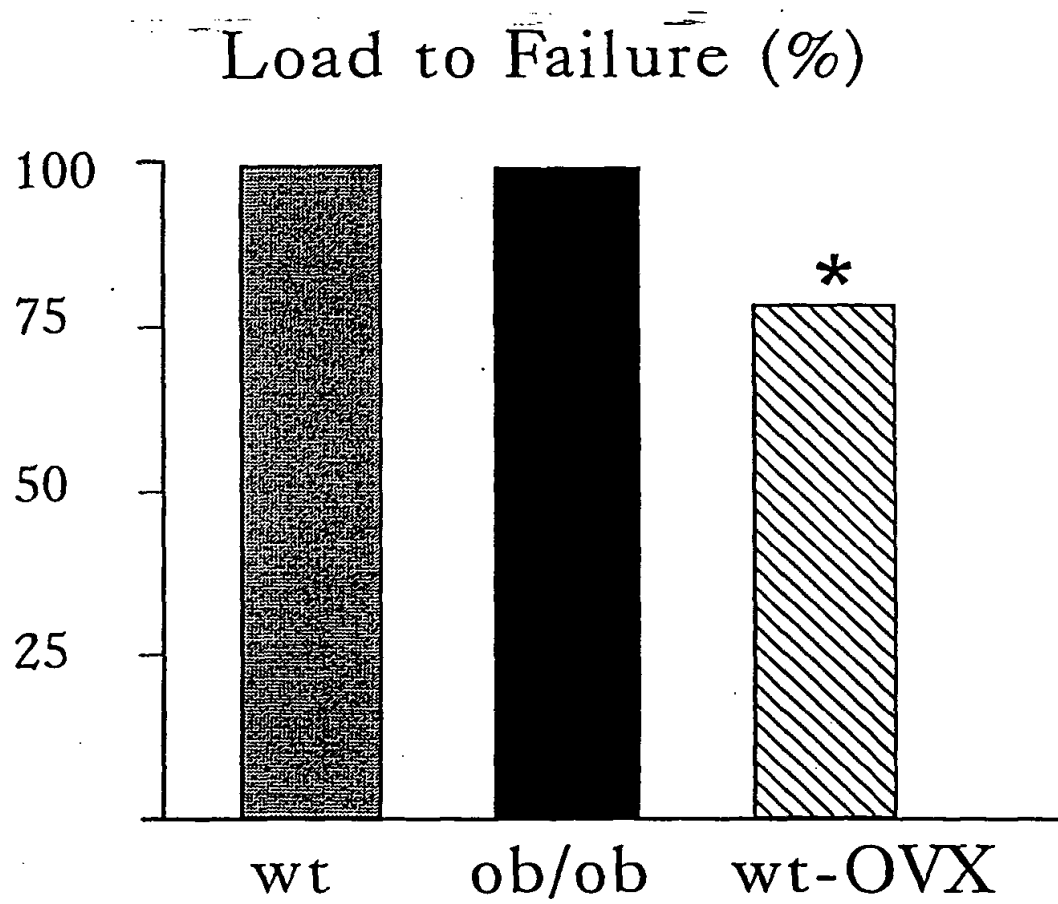


Figure 1D

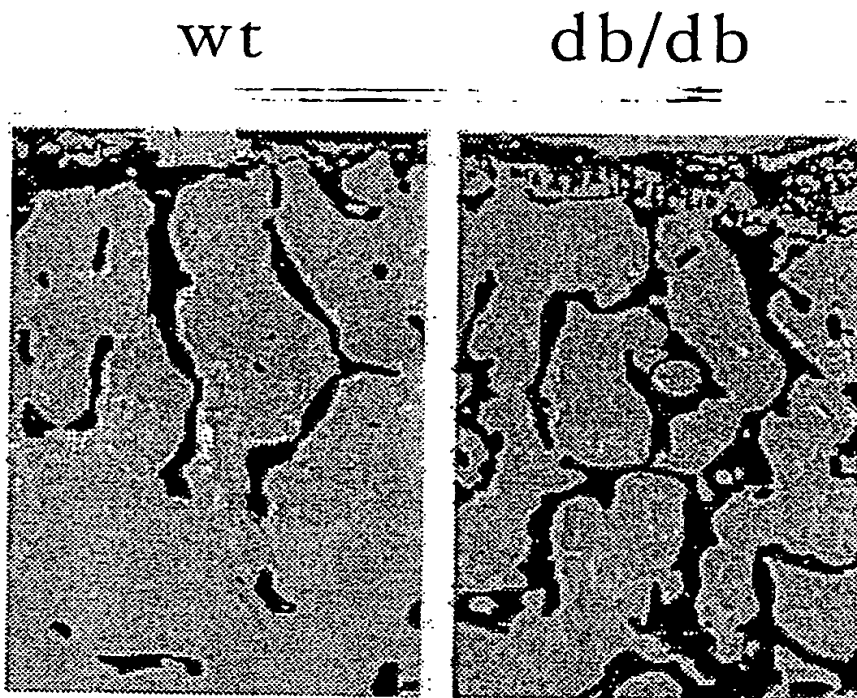


Figure 1E

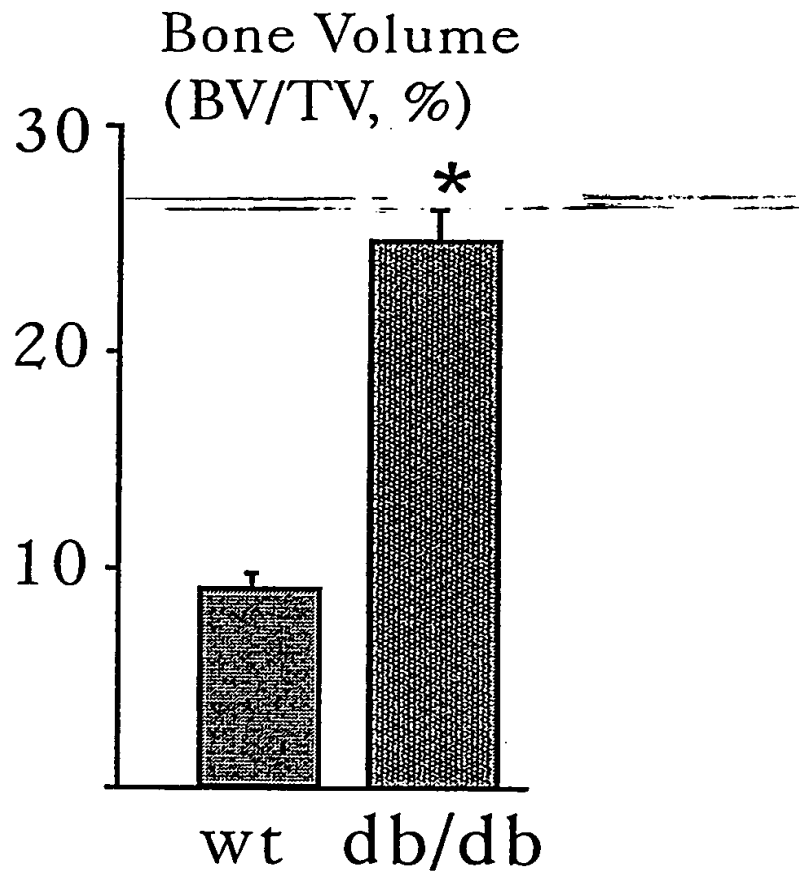
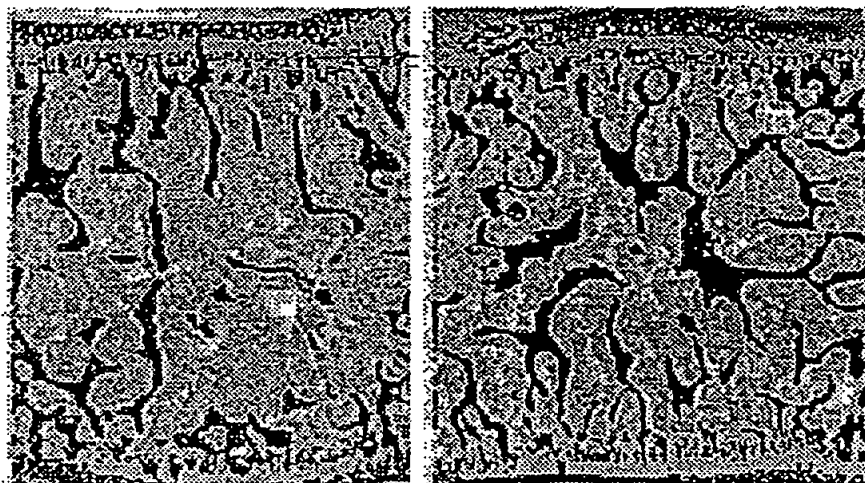


Figure 1F

wt. 1 mo

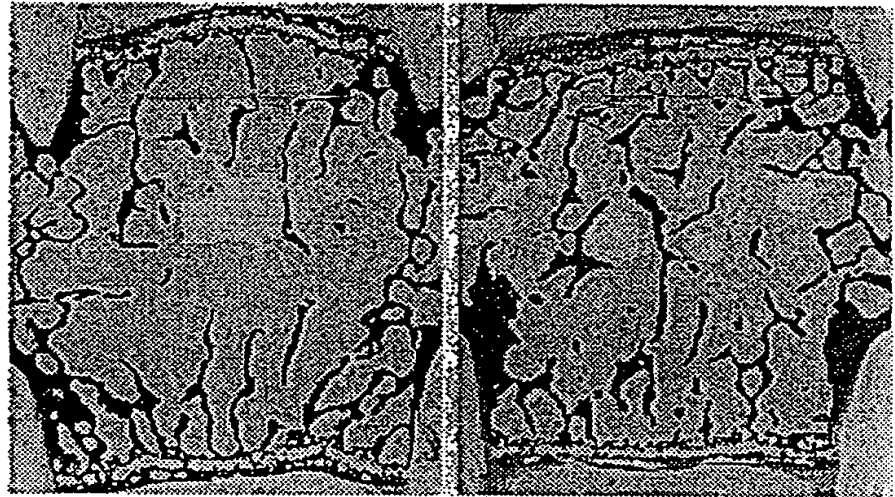
ob/ob 1 mo  
LFdiet

B. Weight (g)	$17.8 \pm 3.1$	$20.3 \pm 1.6$
Bone Vol. (%)	$13.8 \pm 1.0$	<u><math>25.1 \pm 1.4</math></u>

Figure 2A

wt

ob/+



B. Weight (g)

 $20.4 \pm 0.7$  $19.63 \pm 0.2$ 

Bone Vol. (%)

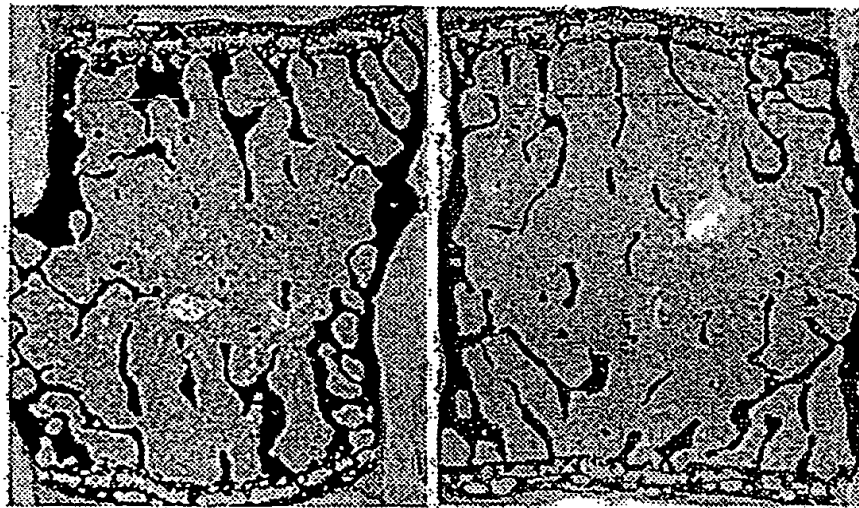
 $12.9 \pm 0.9$  $21.0 \pm 0.7$ 

Figure 2B



wt

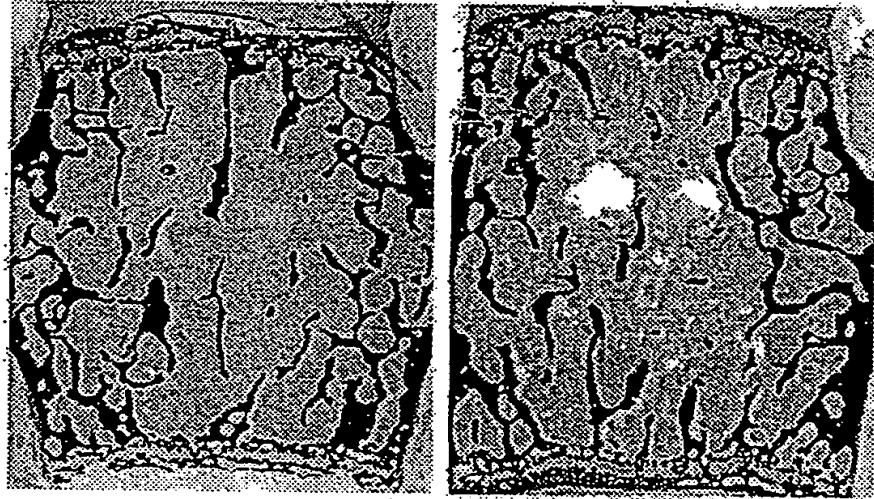
Ay/a



B. Weight (g)	$20.5 \pm 0.6$	<u><math>27.7 \pm 1.9</math></u>
Bone Vol. (%)	$14.0 \pm 1.2$	$12.1 \pm 0.8$

Figure 2C

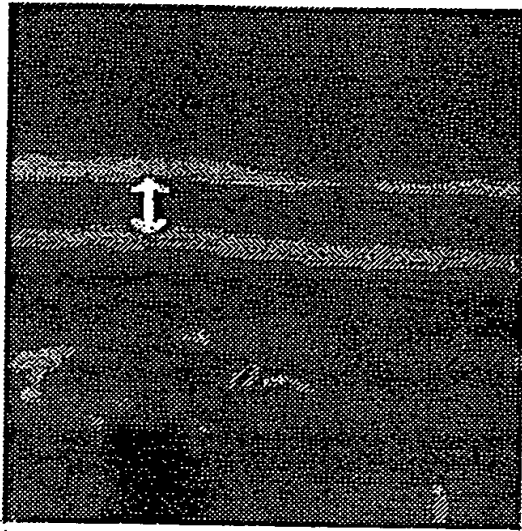
wt                      wt  
Normal diet      HF diet



B. Weight (g)	$20.0 \pm 0.3$	<u><math>29.8 \pm 0.6</math></u>
Bone Vol. (%)	$14.0 \pm 1.2$	$14.4 \pm 0.8$

Figure 2D

wt



ob/ob

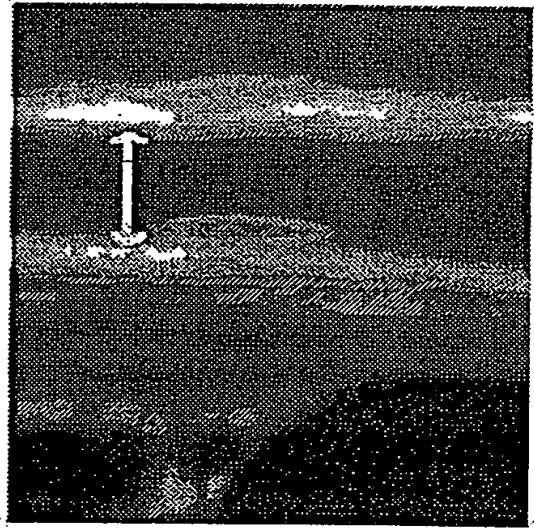


Figure 3A

# Bone Formation Rate ( $\mu\text{m}^3/\mu\text{m}^2/\text{year}$ )

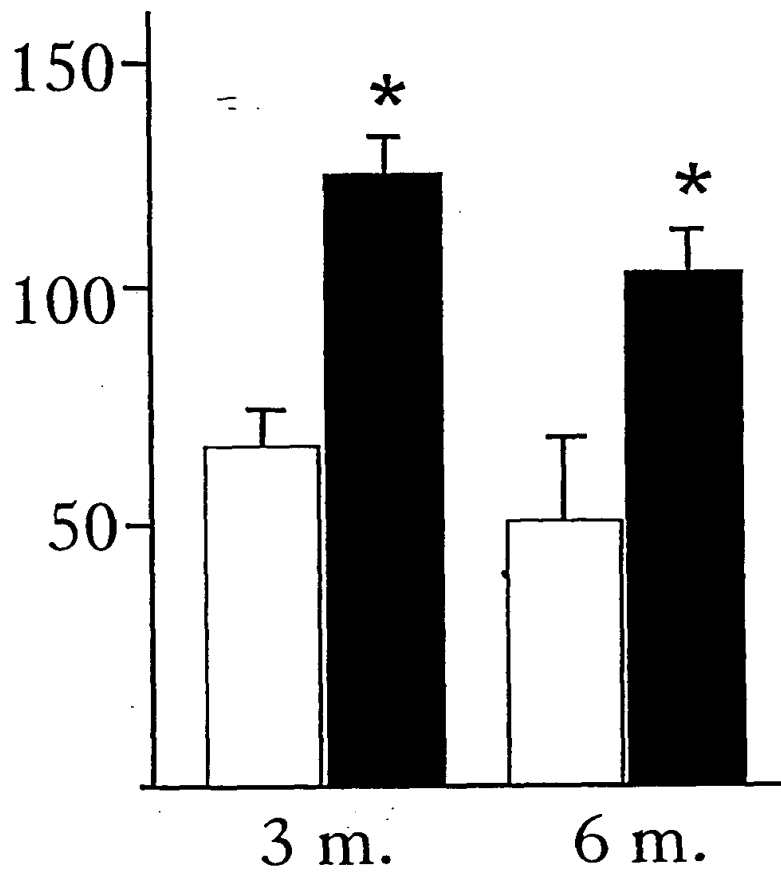


Figure 3B

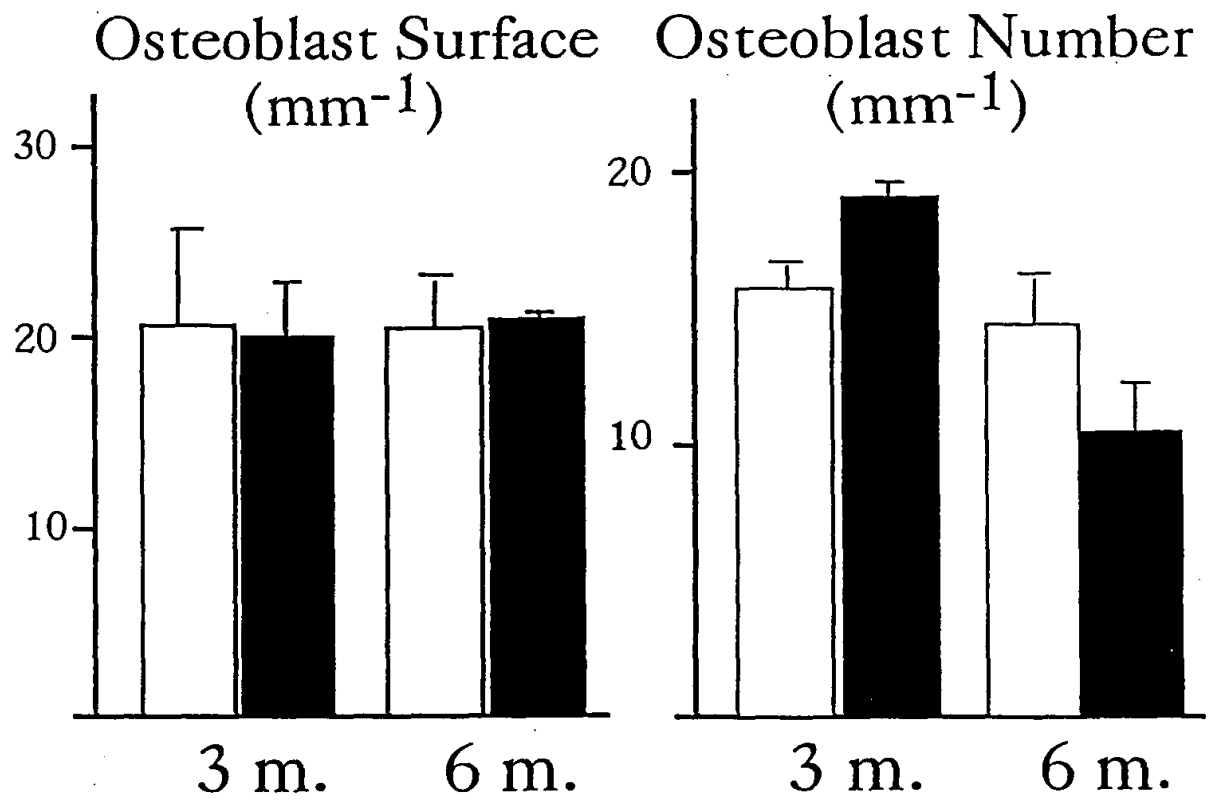


Figure 3C

# Bone Formation Rate ( $\mu\text{m}^3/\mu\text{m}^2/\text{year}$ )

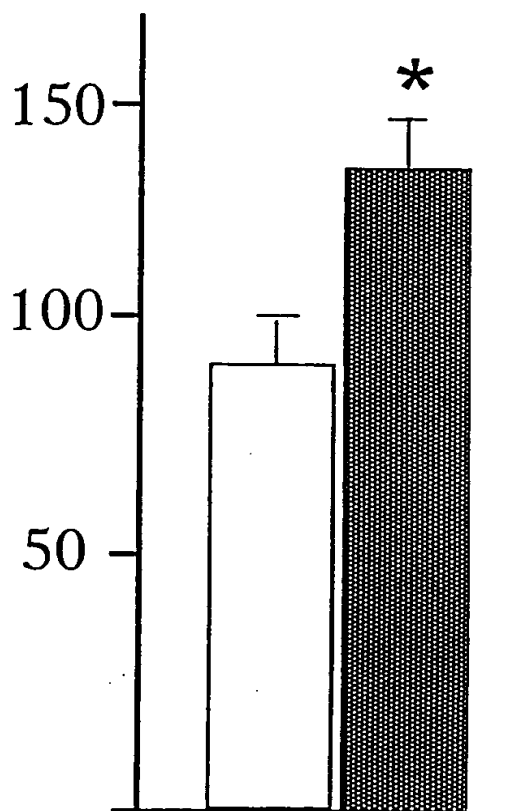


Figure 3D

# Osteoblast Number (mm<sup>-1</sup>)

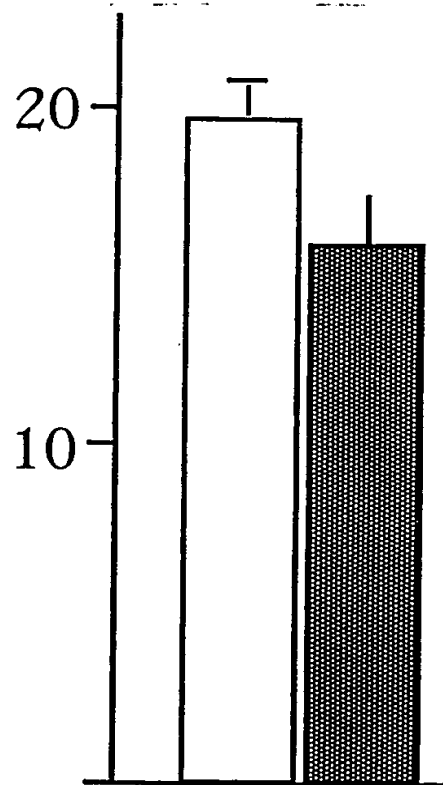


Figure 3E

# Osteoclast Number (mm<sup>-1</sup>)

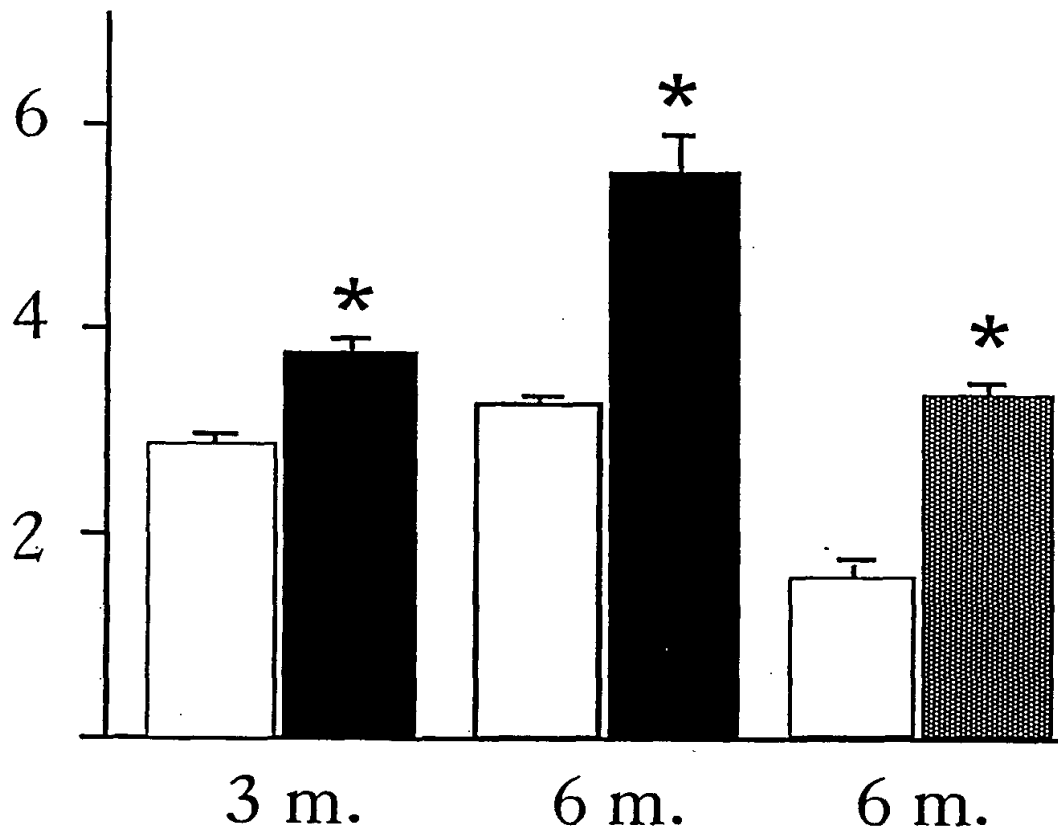


Figure 3F



# Bone Formation Rate ( $\mu\text{m}^3/\mu\text{m}^2/\text{year}$ )

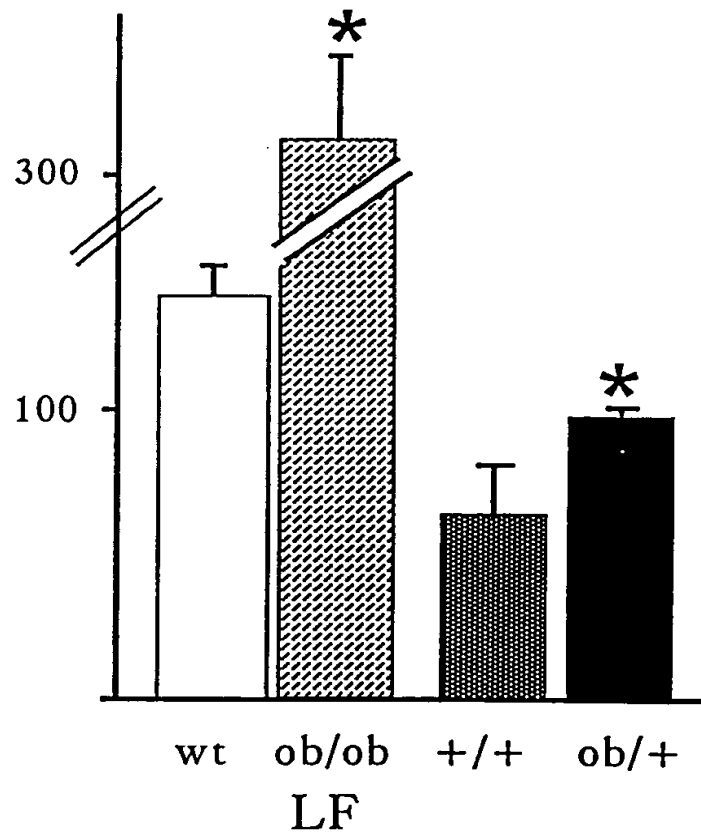


Figure 3G

# Bone Formation Rate ( $\mu\text{m}^3/\mu\text{m}^2/\text{year}$ )

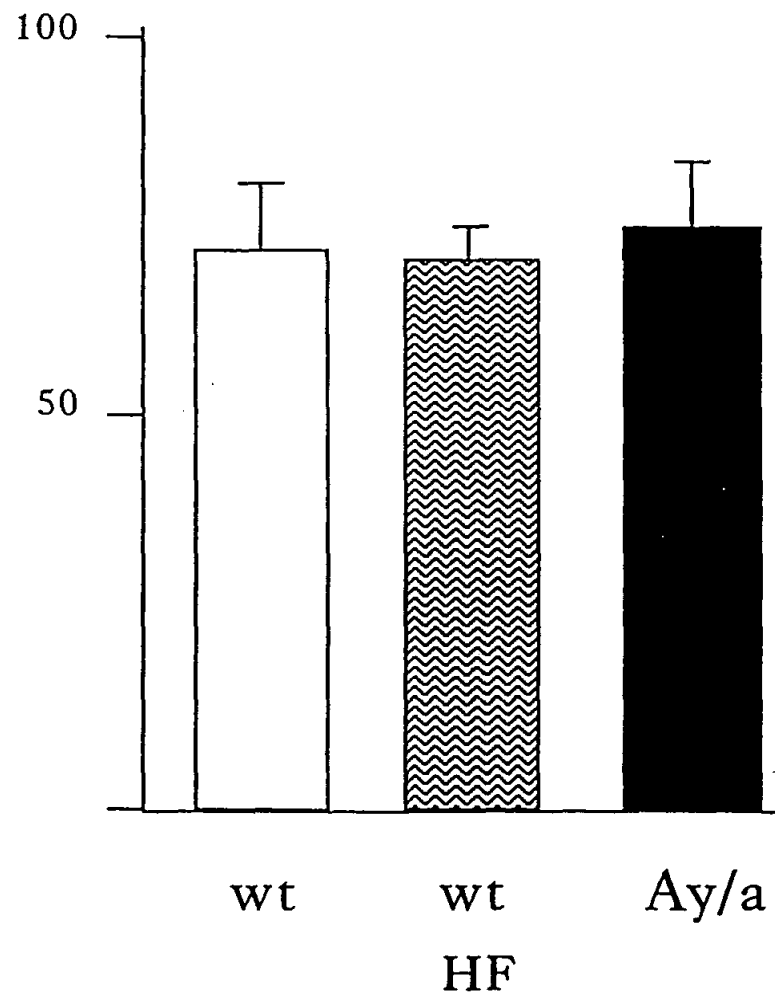


Figure 3H

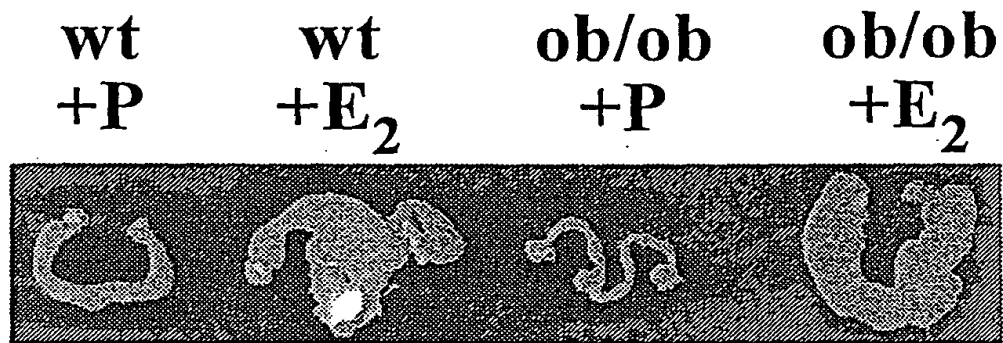


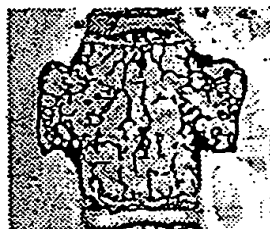
Figure 4A

**wt  
+P**

**wt  
+E<sub>2</sub>**

**ob/ob  
+P**

**ob/ob  
+E<sub>2</sub>**



**Figure 4B**

## Osteoclast Number ( $\text{mm}^{-1}$ )

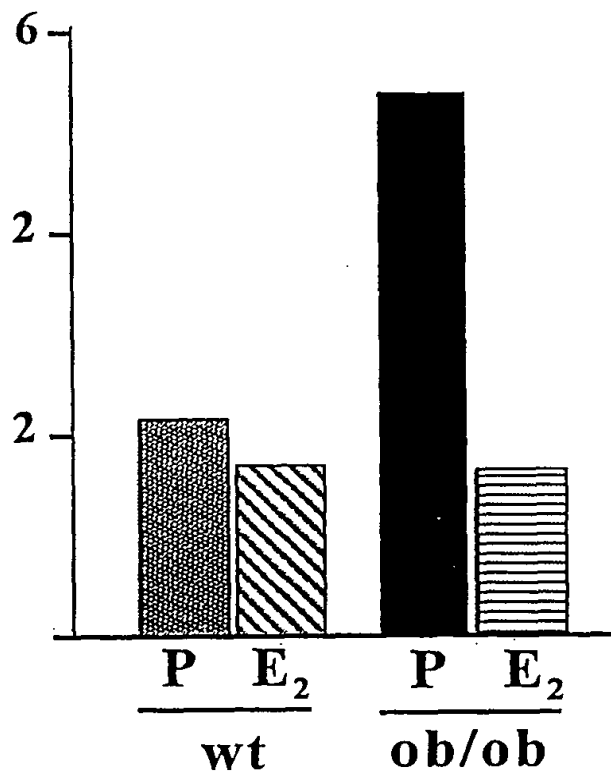


Figure 4C

## Bone Volume (BV/TV, %)

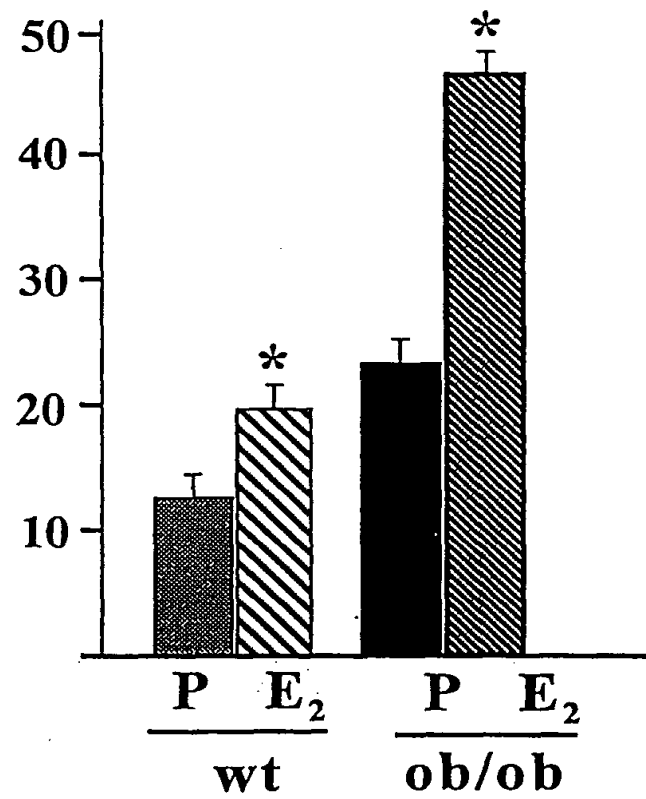


Figure 4D

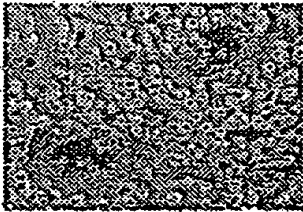
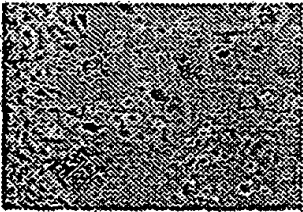
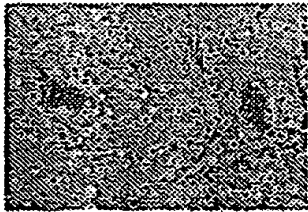
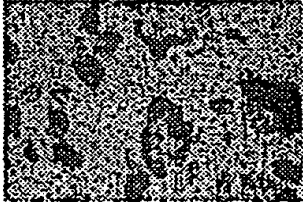
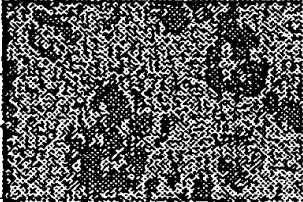
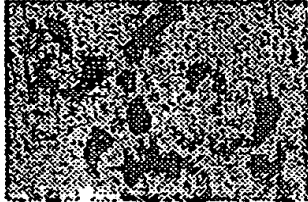
	wt	ob/ob	db/db
TRAP Activity			
Pits Formation			
TRAP+ cells/ Field of view	$60 \pm 5.9$	$58.5 \pm 11.3$	$52.3 \pm 7.4$

Figure 4E

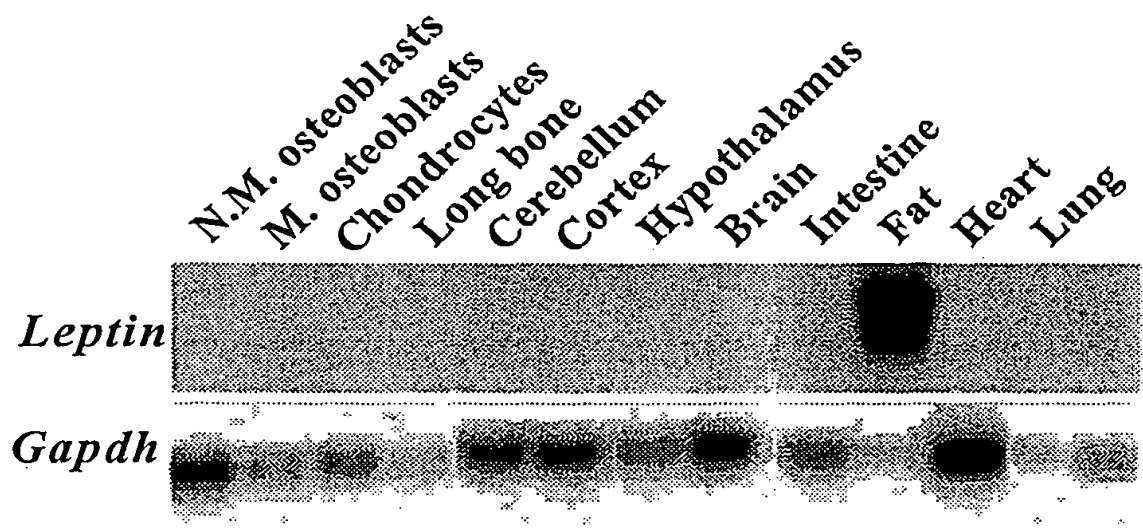


Figure 5A



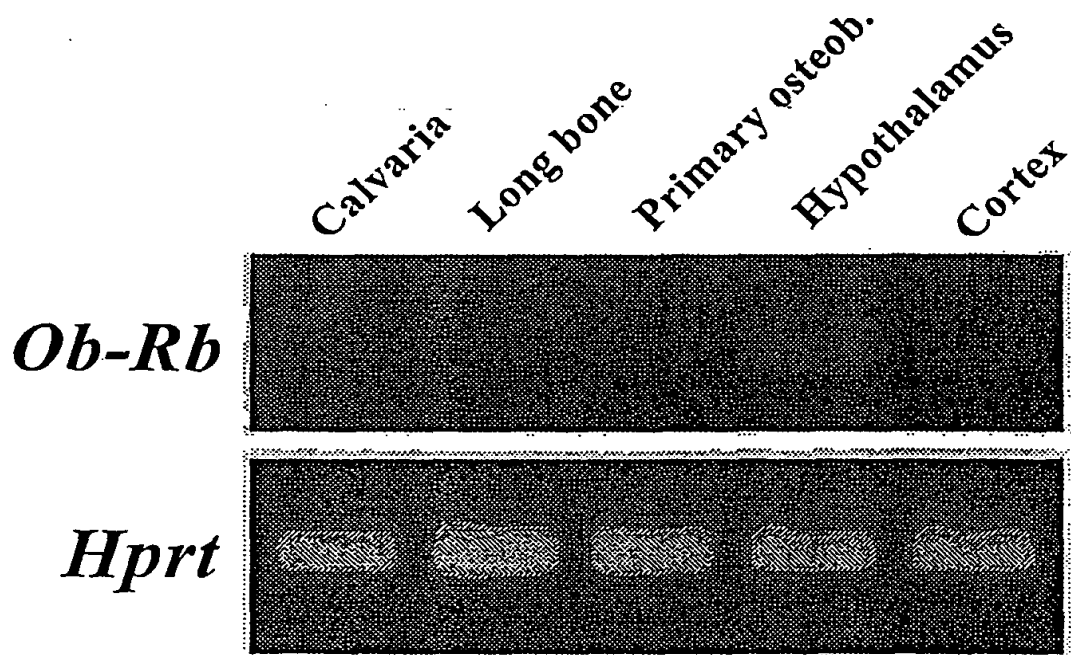


Figure 5B

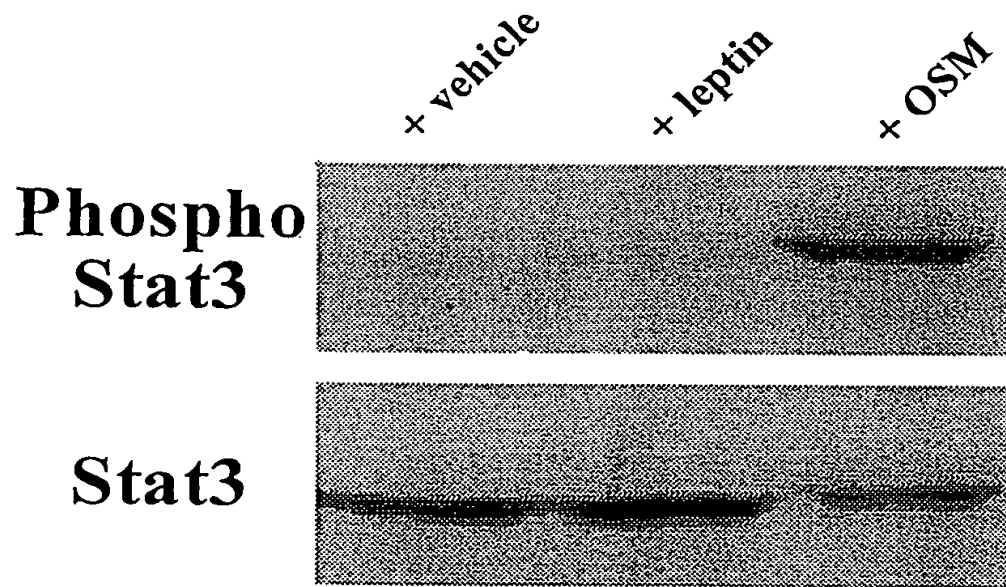


Figure 5C

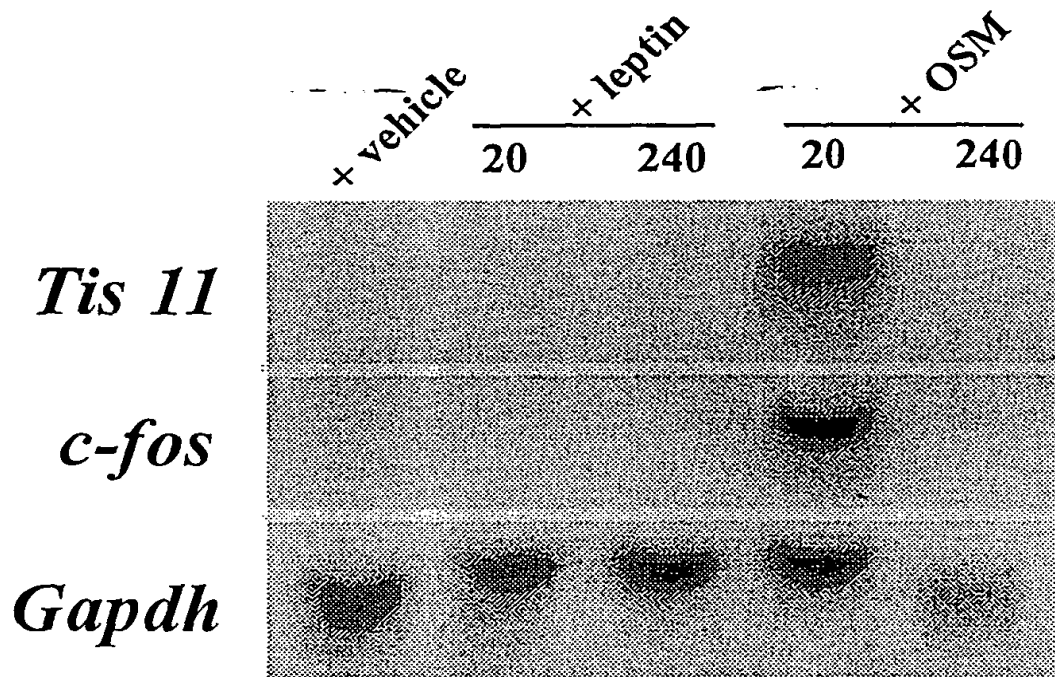
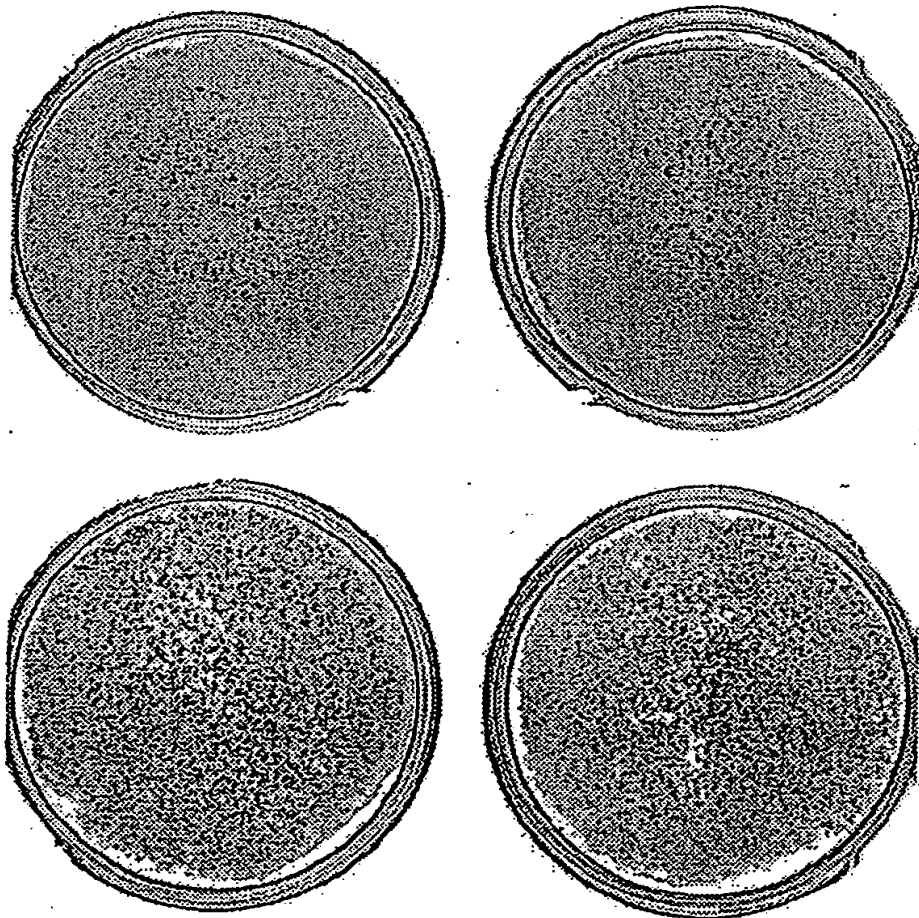


Figure 5D

**+ vehicle**

**+ leptin**



**Figure 5E**

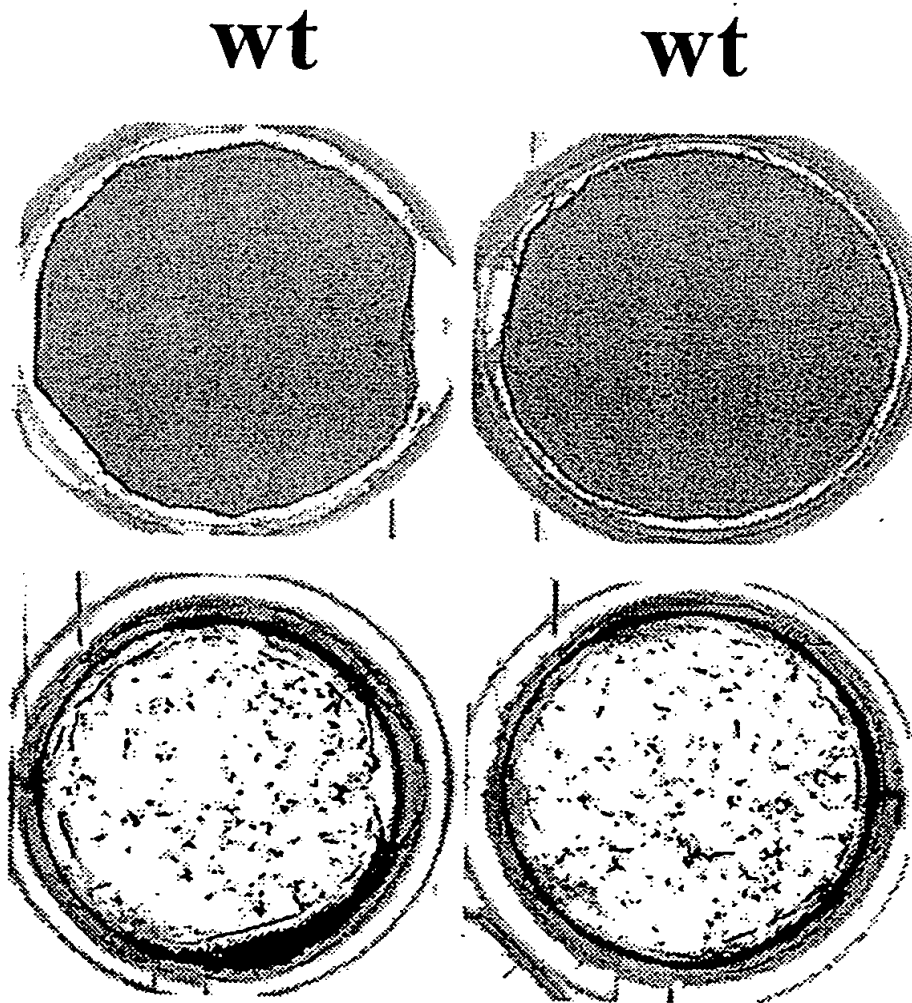
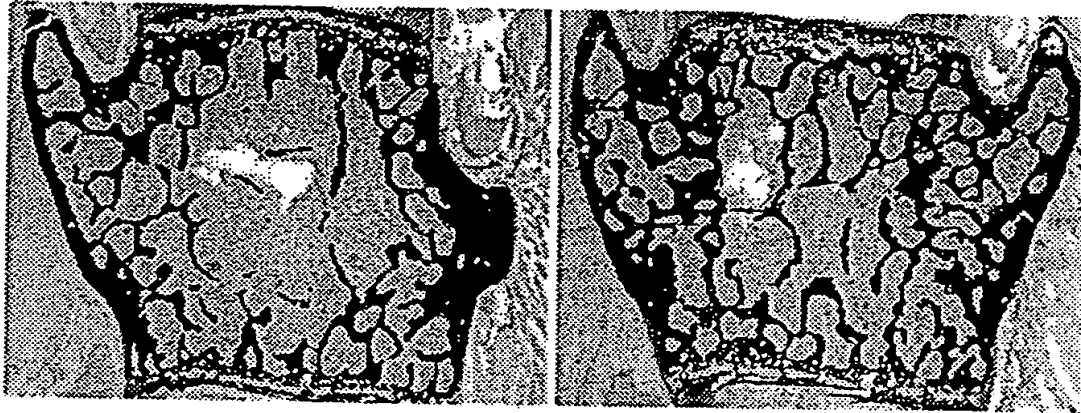


Figure 5F

**wt**

**A-ZIP/F-1**



**Figure 6A**

## Bone Volume (BV/TV, %)

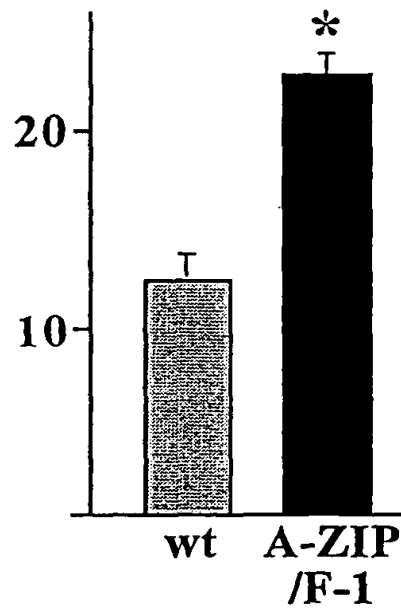


Figure 6B

## Bone Formation Rate ( $\mu\text{m}^3/\mu\text{m}^2/\text{year}$ )

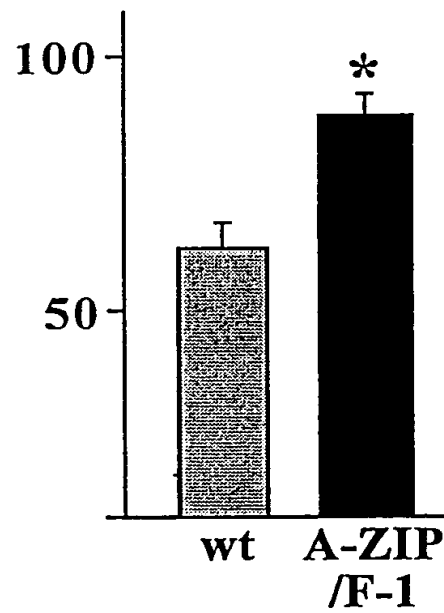


Figure 6C



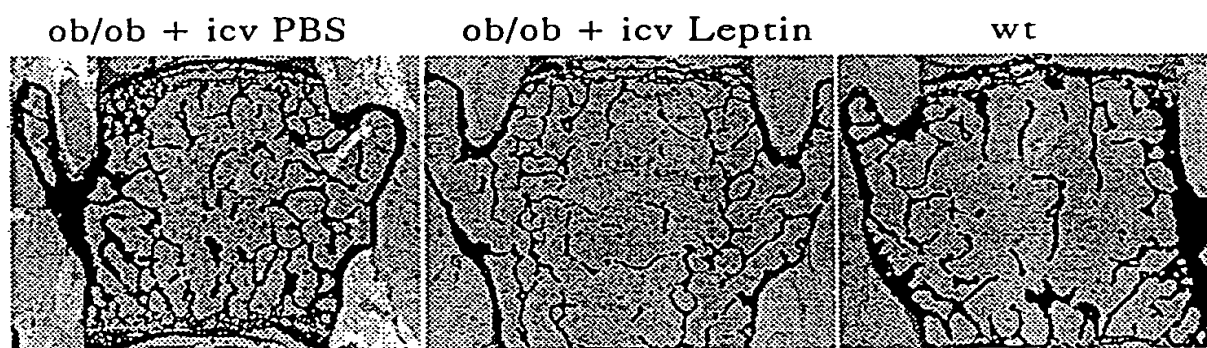


Figure 7A

# Bone Volume (BV/TV, %)

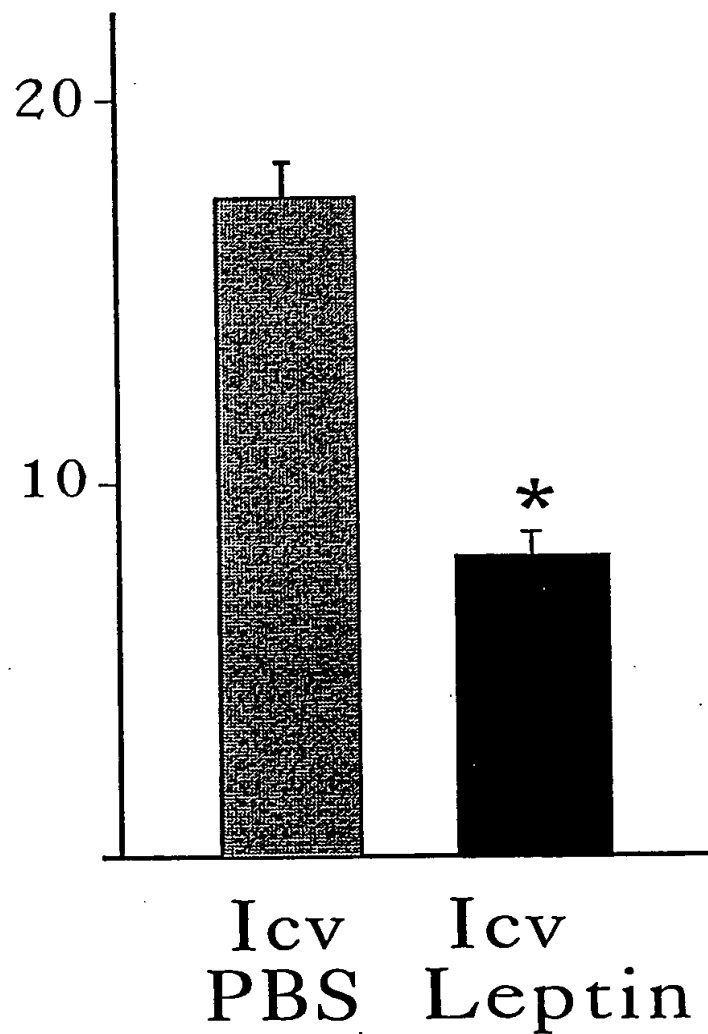


Figure 7B

# Trabecular Thickness ( $\mu\text{m}$ )

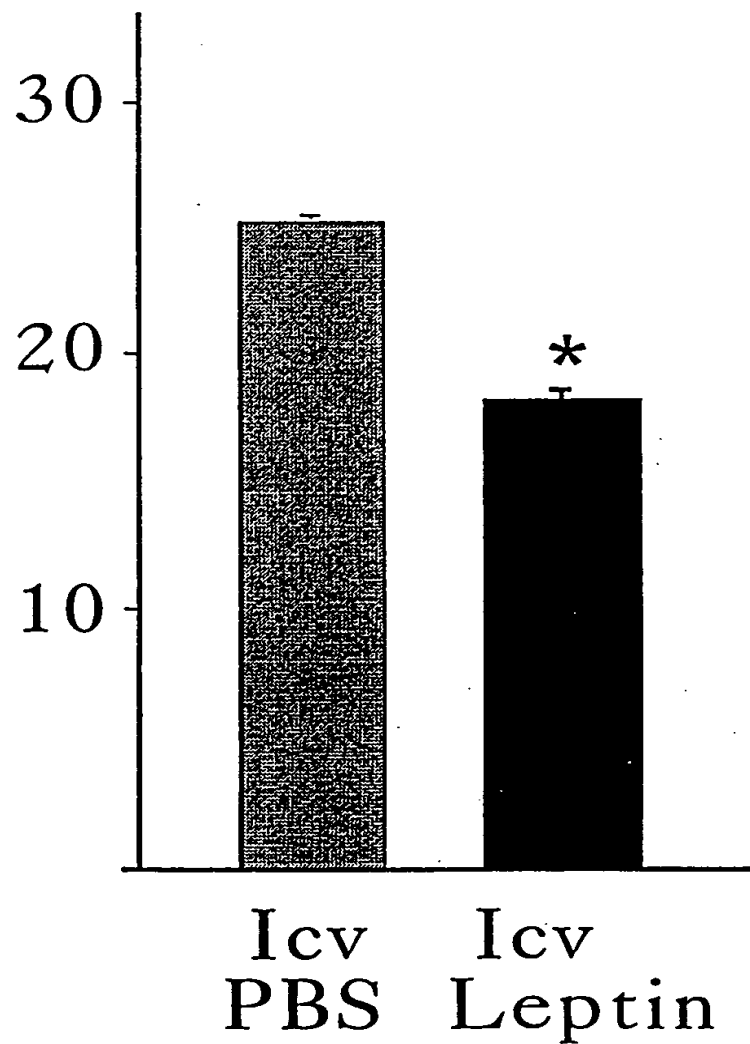


Figure 7C

# Bone Formation Rate ( $\mu\text{m}^3/\mu\text{m}^2/\text{year}$ )

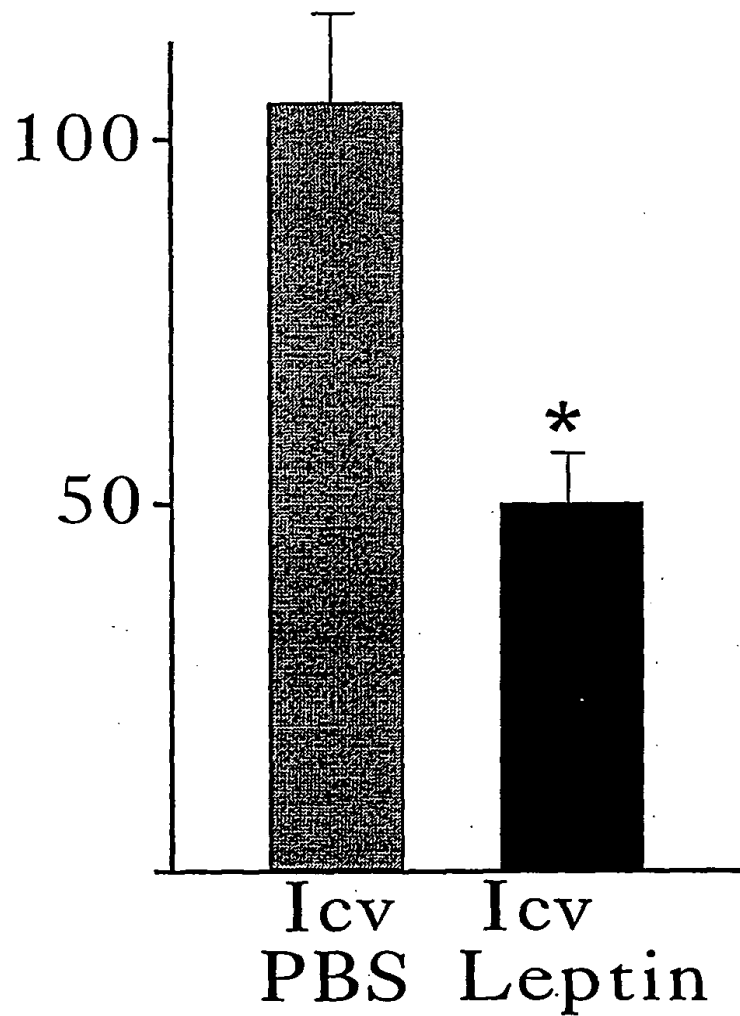


Figure 7D